Maize DB
Locus el1 elongate1

- **Canonical Name:** el1
- **All Names** (e.g. adh1, adh, %dehydro, alcohol)

Name	Per
elongate1	Full Name
el1	Canonical Name

- **Type:** Gene
- **Fullname:** elongate1
- **Species:** Zea mays ssp. mays
- **Linkage Group:** 8
- **Recombination Data:** TB-8Lc el1 1983
- **Arm:** L
- **Map Coordinates**

Value	Error	Map	Source	Backbone
8.04	8.09	bins 8	bins	
109.00	34.00	Genetic 8	Genes	no
105.60		Pioneer composite 1999 8	Pioneer	

- **Phenotypes of Mutants:** defective kernel
- **Variations with Images:** el1
- **Variations with MGSC Stocks:** el1
- **Alleles:** el1
- **Properties:** MNL Gene List
- **Comments**

Type	Comment
Brief Description	chromosomes uncoiled during meiotic metaphase and anaphase in male and female; frequent unreduced gametes
Extended Description	Chromosomes remain uncoiled during meiotic metaphase and anaphase in male and female producing various chromosome abnormalities, including frequent unreduced gametes. Ears from the cross of el1/el1 by normal pollen have plump (3n endosperm) and shrivelled (5n endosperm) kernels; ears from the cross by pollen from tetraploid plants have plump (6n) or shrivelled (4n) kernels.
Annotation	Does not appear to condition maize histone alterations that can be detected electrophoretically (Stout & Phillips 1973)

- **References**

Contents	Reference
	Golubovskaya, IN. 1979. Int Rev Cytol 58:247-290
	Golubovskaya, IN. 1989. Adv Genet 26:149-192

	Rhoades, MM and Dempsey, E. 1966. Genetics 54:505-522
	Stout, JT and Phillips, RL. 1973. Proc Natl Acad Sci, USA 70:3
Genelist	Rhoades, MM. 1956. MNL 30:38-42
map note	Curtis, CA. 1983. MNL 57:31-32
mutant expression	Staiger, C and Cande, WZ pp.157-171 in Ormrod, JC and Francis,

- **ID#:** 12213